

WHAT IS CLAIMED IS:

1. A crank structure, comprising a main body, and a crank shaft,
wherein:

the main body has a first end provided with a first mounting portion
5 and a second end provided with a second mounting portion; and

the crank shaft is mounted on the second mounting portion of the
main body in a close fit manner.

2. The crank structure in accordance with claim 1, wherein the main
body is made of aluminum alloy material.

10 3. The crank structure in accordance with claim 1, wherein the main
body and the crank shaft form an L-shaped profile.

4. The crank structure in accordance with claim 1, wherein the
second mounting portion of the main body has a periphery provided with a
plurality of protruding wing plates.

15 5. The crank structure in accordance with claim 4, wherein the
second mounting portion of the main body is integrally formed with the wing
plates.

6. The crank structure in accordance with claim 1, wherein the crank
shaft is a hollow body made of aluminum alloy material.

20 7. The crank structure in accordance with claim 1, further comprising
a composite material layer coated around an outer periphery of the main body.

8. The crank structure in accordance with claim 7, wherein the composite material layer is made of carbon fiber material.

9. The crank structure in accordance with claim 1, wherein after the crank shaft is mounted on the second mounting portion of the main body in a close fit manner, the composite material layer is coated around the outer periphery of the main body, so that the main body and the crank shaft form the crank structure having an enhanced combination strength.

10. A crank structure, comprising:

a main body;

10 a first mounting member mounted on a first end of the main body;

a second mounting member mounted on a second end of the main body; and

a crank shaft integrally formed on and extended from the second mounting member.

15 11. The crank structure in accordance with claim 10, wherein the main body is integrally coated with the first mounting member and the second mounting member.

12. The crank structure in accordance with claim 10, wherein the main body is made of carbon fiber material.

20 13. The crank structure in accordance with claim 10, wherein the main body and the crank shaft form an L-shaped profile.

14. The crank structure in accordance with claim 10, further comprising a composite material layer coated around an outer periphery of the main body, the first mounting member and the second mounting member.

15. The crank structure in accordance with claim 14, wherein the
5 composite material layer is made of carbon fiber material.

16. The crank structure in accordance with claim 10, wherein the first mounting member is made of aluminum alloy material.

17. The crank structure in accordance with claim 10, wherein the second mounting member is made of aluminum alloy material.

10 18. The crank structure in accordance with claim 10, wherein the second end of the main body and the second mounting member have a periphery provided with a plurality of protruding wing plates.